INEOS STYROLUTION

Luran S 796M

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S 796M is suitable for extrusion and injection molding. It provides a medium flowability and enhanced impact strength.

FEATURES

- Enhanced impact strength
- Medium flowability

APPLICATIONS

- Sheets
- Truck cabin parts

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	9
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	25
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	5
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	30
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	5
Tensile Stress at Yield, 23 °C	ISO 527	MPa	41
Tensile Strain at Yield, 23 °C	ISO 527	%	3.5
Tensile Modulus	ISO 527	MPa	2000
Elongation at Break (MD)	ISO 527	%	13
Flexural Strength, 23 °C	ISO 178	MPa	60
Hardness, Ball Indentation	ISO 2039-1	MPa	65
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	90
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	104
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	95
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	100
Coefficient of Linear Thermal Expansion	ISO 11359	10^(-6)/°C	80 - 110
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17

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Property, Test Condition	Standard	Unit	Values
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 60250	-	3.8
Dissipation Factor (100 Hz)	IEC 60250	10^(-4)	100
Dissipation Factor (1 MHz)	IEC 60250	10^(-4)	250
Volume Resistivity	IEC 60093	Ohm*m	1E12
Surface Resistivity	IEC 60093	Ohm	1e+013
Other Properties			
Density	ISO 1183	kg/m³	1070
Water Absorption, Saturated at 23 °C	ISO 62	%	1.65
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.35
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.5 - 0.9
Melt Temperature Range	ISO 294	°C	240 - 280
Mold Temperature Range	ISO 294	°C	60
Injection Velocity	ISO 294	mm/s	200
Drying Temperature		°C	80
Drying Time		h	2 - 4

Typical values for uncolored products

SUPPLY FORM

Luran® S is delivered in the form of cylindrical or spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm³. Values may differ for special grades. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film. In addition, delivery in larger units of up to 1000 kg (IBC = Intermediate Bulk Container) or silo trucks can be arranged. In dry areas with normal temperature control, Luran S pellets can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Luran S absorbs moisture, but this can be removed by drying.

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PRODUCT SAFETY

No adverse effects on the health of processing personnel have been observed where the products are correctly processed and the production areas are suitably ventilated. For styrene, alpha-methylstyrene, acrylonitrile, and butyl acrylate the maximum allowable workplace concentrations must be observed according to the pertaining national regulations. In Germany, the following limit values are valid TRGS 900 (Aug. 2004): styrene, MAK-value: 20 ml/m³; alpha-methylstyrene, MAK-value: 100 ml/m³; acrylonitrile, TRK-value: 3 ml/m³, and butyl acrylate, MAK-value: 2 ml/m³ (1.7.2004). According to EU directive 67/548/EEC, Annex I (2001), acrylonitrile is classified as carcinogenic, category 2 (´substances which should be regarded as if they are carcinogenic to man´). Experience has shown that when Luran® S is processed correctly with appropriate ventilation, the levels are far below the limits mentioned above. Inhalation of the vapors of degradation products which can arise on severe overheating of the materials or during purging out should be avoided. Further information can be found in the Luran S safety data sheets.

DISCLAIMER

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